# APPENDIX 2

## Attainment Demonstration Emissions and Conformity Budget Options

**ONE - HOUR OZONE STANDARD ATTAINMENT DEMONSTRATION**
**SIP FOR KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WASHINGTON, AND WAUKESHA COUNTY AREA. AIR QUALITY MANTENANCE PLAN IN EFFECT FOR WALWORTH COUNTY**

| | **Summer Weekday VMT LMOP Strategy 2** | | | |
|---|---|---|---|---|
| | Seven Cos. | | Walworth Co. | Six Cos. |
| Freeway | 15,677,676 | | 991,262 | 14,686,414 |
| Standard Arterials | 28,064,346 | | 1,956,220 | 26,108,126 |
| Non Aterials | 4,560,214 | | 398,222 | 4,161,992 |
| TOTAL | 48,302,236 | | 3,345,704 | 44,956,532 |
| | **Summer Weekday VMT Intermediate Growth** | | | |
| | Seven Cos. | | Walworth Co. | Six Cos. |
| Freeway | 15,855,265 | | 1,014,256 | 14,841,009 |
| Standard Arterials | 28,385,841 | | 1,976,744 | 26,409,097 |
| Non Arterials | 4,614,123 | | 404,102 | 4,210,021 |
| TOTAL | 48,855,229 | | 3,395,102 | 45,460,127 |
| | **Summer Weekday VMT High Growth** | | | |
| | Seven Cos. | | Walworth Co. | Six Cos. |
| Freeway | 16,246,699 | | 1,064,938 | 15,181,761 |
| Standard Arterials | 29,094,468 | | 2,021,982 | 27,072,486 |
| Non Arterials | 4,732,945 | | 417,064 | 4,315,881 |
| TOTAL | 50,074,112 | | 3,503,984 | 46,570,128 |

### Control Measures

| | I/M Cutpoints | | Gasoline | New Vehicle Standards | ECO Adjustment |
|---|---|---|---|---|---|
| | VOC | NOx | | | |
| LMOP Strategy 2 | Final, All MYs | None | RFG-Class C | Tier 1 (MYs 1994+) | 2.5% VMT Reduction |
| | | | | | |
| Intermediate and High Growth | Start-Up, MYs 1980-86;Final, Other MYs | None | RFG-Class C | Tier 1 (MYs 1994-2000)<br>Nat. LEV (MYs 2001+)<br>New Heavy Diesel (MYs 2004+) | None |
| | | | | | |

### Modeling Assumptions

| | Summer Weekday VMT (Six Co. NA Area) | VMT Growth (7 Co. Region) | Vehicle Age Distribution | Vehicle Type Distribution |
|---|---|---|---|---|
| LMOP Strategy 2 | 43,832,619 *(after ECO adj.)* | 1.9%/Yr 1990-1999; 1.4%/Yr 1999-2007 *(before ECO adj.)* | WDNR, 1990 Inventory. | SEWRPC, Memo. Report 125 |
| | | | | |
| Intermediate Growth | 45,460,127 | 2.0%/Yr 1990-2000; 1.2%/Yr 2000-2007 | WDNR, updated during 1999 | WDNR, updated during 1999 *(Lt. Tks. Increased)* |
| High Growth | 46,570,128 | 2.0%/Yr 1990-2000; 1.7%/Yr 2000-2007 | WDNR, updated during 1999 | WDNR, updated during 1999 *(Lt. Tks. Increased)* |

- VMTs and vehicle speed distributions obtained from February 25, 1998, letter from Philip Evenson, SEWRPC, to Lloyd Eagan, WDNR.
- The U.S. EPA's MOBILE5a model was used to model all scenarios.
- The effects of heavy-duty diesel defeat devices, Tier 2 vehicle standards and low sulfur gasoline were not included in the modeling.